Single-Cell Genomics and Proteomics: Emerging Technologies and Markets

Description:

This report provides:

- An overview of the global markets and emerging technologies for single-cell genomics and proteomics.
- Cell isolation technologies including flow cytometry, laser capture microscopy, micromanipulation.
- Sample preparation technologies including microfluidics, whole genome amplification/ pre-amplification.
- Analyses of next generation sequencing, qPCR/PCR, microarrays, mass spectrometry, microfluidics.
- End use industry coverage including research, drug discovery and development, diagnostics, and applied.
- Evaluation of the market’s dynamics including growth drivers, restraints, and opportunities.
- Profiles of major players in the industry.

Highlights

The global single-cell analysis market was valued at $541.2 million in 2014. This market is projected to grow from $626.2 million in 2015 to $1.6 billion in 2020, a compound annual growth rate (CAGR) of 20.7% from 2015 to 2020.

The global market for single-cell analysis products among research, drug development and applied end users is expected to increase from $386.1 million in 2015 to $808.5 million in 2020, a CAGR of 15.9% from 2015 to 2020.

The global single-cell analysis diagnostics market segment is expected to increase from $240.1 million in 2015 to $796.8 million in 2020 with a CAGR of 27.1% from 2015 to 2020.

Scope of The Report

The scope of the report includes single-cell analysis technologies, applications, industries, major funding initiatives, patents and companies. The market sizes for single-cell products are given for the years 2014, 2015 and 2020. This report reviews the single-cell workflow steps and technologies and provides background on why single-cell analysis is important. It then discusses some of the top research initiatives that are contributing to the growth of single-cell applications. Market driving forces are also discussed.

The structure of several important industry subsectors are reviewed as well as major industry acquisitions and strategic alliances from 2013 to the present. Industry subsectors analyzed include NGS instruments, droplet digital PCR, single-cell proteomics, target enrichment and amplification, single-cell DNA polymerase, preimplantation genetic diagnosis and screening, liquid biopsy and immune sequencing.

The market for single-cell analysis technologies is analyzed in depth. The market is analyzed by end user, application, product type, field of use, analysis method, workflow step and geography.

The single-cell diagnostics market is analyzed by indication and by test purpose. Specific geographic markets are discussed, including North America, Europe, Asia-Pacific and the rest of the world (ROW). Market data covers the years 2014, 2015 and 2020.

More than 75 companies in the single-cell analysis industry are profiled in this report. The author provides a summary of the main industry acquisitions and strategic alliances from 2013 through 2015, including key alliance trends.

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